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1. Self-adhesive protective film for the exterior of painted vehicles, especially cars, characterized in that

- the backing of the protective film is a film coated on one side with an adhesive composition
- whose bond strength on steel is between 0/2 and 2.8 N/cm,
- the adhesive composition comprising a copolymer of at least two different α-olefins having 2 to 12 carbon atoms and at least one diene as further comonomer, no α-olefin having a proportion of 75 mol% or more in the adhesive composition as a whole, and the copolymer having a Mooney viscosity ML (1+4) 125°C of less than 50.
- 15 2. Self-adhesive protective film according to Claim 1, characterized in that the proportion of diene in the adhesive composition is between 0.5 and 10% by weight.
- 3. Self-adhesive protective film according to Claim 1, characterized in that the UV permeability in the range from 290 to 360 nm is less than 1%.
- 4. Self-adhesive protective film according to Claim 1, characterized in that the copolymer of the adhesive composition has a Mooney viscosity ML (1+4) 125°C of less/than 30.
 - 5. Self-adhesive protective film according to Claim 1, characterized in that the adhesive composition is crosslinked.
- 30 6. Self-adhesive protective film according to Claim 1, characterized in that the proportion of polar comonomers in the copolymer is less than 20 mol%.
- 7. Self-aghesive protective film according to Claim 1, characterized in that it comprises at least one light stabilizer.
 - 8. Self-adhesive protective film according to Claim 1, characterized in that it comprises at least one light stabilizer of the HALS class.

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- 9. Self-adhesive protective film according to Claim 1, characterized in that no more than 65 mol% of any α -olefin is present in the copolymer.
- 10. Self-adhesive protective film according to Claim 1, characterized in that the bond strength on steel is between 0.3 and 1.5 N/cm.
- Self-adhesive protective film according to Claim 1, characterized in that the proportion of each α-olefinic monomer in the copolymer is between 5 and 60 mol%.
- 12. Self-adhesive protective film according to Claim 1, characterized in that the UV permeability in the range from 290 to 360 nm is less than 0.1% and the backing film comprises one or more light stabilizers in an amount of at least 0.15% by weight.
- 13. Self-adhesive protective film according to Claim 1, characterized in that there is an adhesion promoter between the backing film and the adhesive composition.
 - 14. Self-adhesive protective film according to Claim 1, characterized in that the force at 10% extension does not exceed 25 N/15 mm width either in the lengthwise or in the transverse direction.
 - 15. Self-adhesive protective film according to Claim 1, characterized in that the adhesion promoter comprises at least one polymer of which at least 50 mol% consists of one or more α-olefins.
- 30 16. Self-adhesive protective film according to Claim 1, characterized in that the backing film comprises at least one copolymer of propylene.
 - 17. Self-adhesive protective film according to Claim 1, characterized in that the adhesive composition and the backing film are joined to the protective film by simultaneous coextrusion.
 - 18. Use of a protective film according to one of Claims 1 to 17 or curved surfaces on the exterior of cars.

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